

April 1, 2003

Mr. Chris Holloway
Arvin Meritor -QRI
849 Whitaker Road
Plainfield, Indiana 46168

Re: 063-16896
3rd Notice-only change to
MSOP 063-11118-00046

Dear Mr. Holloway:

Arvin Meritor -QRI was issued a Minor Source Operating Permit (MSOP) on October 10, 1999 for an aftermarket heavy duty truck remanufacturer. A letter notifying the Office of Air Quality of a change was received on March 11, 2003. The change qualifies as a Notice-Only Change, since the change involves the "addition of an emission unit of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission unit or units, except if the modification would result in a potential to emit greater than the thresholds in 326 IAC 2-2 or 2-3". Therefore, pursuant to the provisions of 326 IAC 2-6.1-6 the permit is hereby revised to include the following changes (changes are **bolded** and deletions are ~~struck-through~~ for emphasis):

- (a) Installation of one (1) new 12 cubic feet (ft³) tumbler blaster unit, identified PL-127 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit will be controlled by the common DC-6 dust collector, venting inside the building. This tumbler blaster will replace the existing 6 ft³ capacity PL-124 abrasive tumbler blaster, which will be relocated within the same brake manufacturing area but will be controlled by a dedicated dust collector.
1. Item (h), Section A.2 Emissions Units and Pollution Control Equipment Summary will be revised to add the new blasting unit and to reflect the new dust collector configuration:
- (h) Blasting Operation:
 - (1) One (1)-~~new~~ 12 cubic feet (ft³) pangborn rotoblast, barrel abrasive blasting unit #4, identified PL-126 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit is controlled by ~~a new~~ dust collector, identified as DC-6, venting inside the building.
 - (2) Two (2) tumblast finishing units, identified as PL-124, and PL-125, each with a maximum capacity of 1980 pounds per hour. **The shot is continuously recirculated with a maximum consumption rate of 5 pounds of steel shot per hour for each tumblast unit.** ~~These~~ Tumblast finishing units **PL-124** will be ~~both~~ controlled by ~~the~~ **a new dedicated 2,000 ACFM dust collector,**

identified as DC-7. Tumblast finishing unit PL-125 is controlled by dust collector, identified as DC-6, venting inside the building.

- (3) One (1) tumblast finishing unit, identified as PL-123 with a maximum capacity of 1980 pounds per hour . **The shot is continuously recirculated with a maximum steel shot consumption rate of 5 pounds per hour. This tumblast unit is** controlled by a dedicated dust collector, identified as DC-5, venting inside the building.
- (4) **One (1) new 12 cubic feet (ft³) abrasive tumble blaster, identified PL-127 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit will be controlled by the existing dust collector, identified as DC-6, venting inside the building.**

2. Section D.1 will be revised to reflect the changes to item (h) as follows:

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

- (a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.
- (b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.
- (c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.
- (d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.
- (h) **Blasting Operation:**
 - (1) One (1) ~~new~~ 12 cubic feet (ft³) pangborn rotoblast, barrel abrasive blasting unit #4, identified PL-126 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit is controlled by a ~~new~~ dust collector, identified as DC-6, venting inside the building.
 - (2) Two (2) tumblast finishing units, identified as PL-124, and PL-125, each with a maximum capacity of 1980 pounds per hour. **The shot is continuously recirculated with a maximum consumption rate of 5 pounds of steel shot per hour for each tumblast unit. These Tumblast finishing units PL-124 will be both controlled by the a new dedicated 2,000 ACFM dust collector, identified as DC-7. Tumblast finishing unit PL-125 is controlled by dust collector, identified as DC-6, venting inside the building.**
 - (3) One (1) tumblast finishing unit, identified as PL-123 with a maximum capacity of 1980 pounds per hour. **The shot is continuously recirculated with a maximum steel shot consumption rate of 5 pounds per hour. This tumblast unit is controlled by a dedicated dust collector, identified as DC-5, venting inside the building.**
 - (4) **One (1) new 12 cubic feet (ft³) abrasive tumble blaster, identified PL-127 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit will be controlled by the existing dust collector, identified as DC-6, venting inside the building.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the

shotblasting facilities shall ~~not exceed 8.07 pounds per hour~~ **be limited as follows:**

Facility/ID	Process Weight Rate (ton/hour)	Particulate Emission Limits (Pound/hour)
PL-124- 7, PL 125 and PL-126 venting to dust collector DC-6	4.32 5.67	10.9 13.1 combined
PL-124 venting to dust collector DC-7	0.99	4.07
PL-123, venting to dust collector DC-5	0.99	4.07

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where: E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this letter and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Aida De Guzman, at (800) 451-6027, press 0 and ask for Aida De Guzman or extension (3-4972), or dial (317) 233-4972.

Sincerely,

Original signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

APD

cc: File - Hendricks County
U.S. EPA, Region V
Hendricks County Health Department
Air Compliance Section Inspector - Jim Thorpe
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**Arvin Meritor - QRI
849 Whitaker Road
Plainfield, Indiana 46168**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 063-11118-00046	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: October 10, 1999
First Notice-Only Change: 063-12519, issued on September 5, 2000 First Significant Permit Revision: 063-13938, issued on August 20, 2001 Second Notice-Only Change: 063-16214, issued on November 15, 2002	
Third Notice-Only Change: 063-16896	Pages Affected: 5, 15, 16 Pages Added: 5a
Issued by: Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: April 1, 2003

- (g) One (1) bake-off oven, identified as PL-110, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S-9. The oven is equipped with an integral secondary combustion chamber.
- (h) Blasting Operation:
 - (1) One (1) 12 cubic feet (ft³) pangborn rotoblast, barrel abrasive blasting unit #4, identified PL-126 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit is controlled by dust collector, identified as DC-6, venting inside the building.
 - (2) Two (2) tumblast finishing units, identified as PL-124, and PL-125, each with a maximum capacity of 1980 pounds per hour. The shot is continuously recirculated with a maximum consumption rate of 5 pounds of steel shot per hour for each tumblast unit. Tumblast finishing unit PL-124 will be controlled by a new dedicated 2,000 ACFM dust collector, identified as DC-7. Tumblast finishing unit PL-125 is controlled by dust collector, identified as DC-6, venting inside the building.
 - (3) One (1) tumblast finishing unit, identified as PL-123 with a maximum capacity of 1980 pounds per hour. The shot is continuously recirculated with a maximum steel shot consumption rate of 5 pounds per hour. This tumblast unit is controlled by a dedicated dust collector, identified as DC-5, venting inside the building.
 - (4) One (1) new 12 cubic feet (ft³) abrasive tumble blaster, identified PL-127 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit will be controlled by the existing dust collector, identified as DC-6, venting inside the building.
- (i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-121B.
- (j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-122.
- (k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.
- (l) One (1) spray paint booth (identified as PB-1) equipped with two (2) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of forty (40) transmission units per hour, dry filters for overspray control and exhausting at stack S-13.
- (m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-106.
- (n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-105.

- (o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-107.
- (p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-108.
- (q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-109.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

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- (b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.
- (c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.
- (d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.
- (h) Blasting Operation:
 - (1) One (1) 12 cubic feet (ft³) pangborn rotoblast, barrel abrasive blasting unit #4, identified PL-126 with a maximum parts throughput capacity of 4680 pounds per hour, utilizing steel shot. The shot is continuously recirculated with a maximum net shot consumption rate of 10 pounds per hour. This blast unit is controlled by dust collector, identified as DC-6, venting inside the building.
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(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the shotblasting facilities shall be limited as follows:

Facility/ID	Process Weight Rate (ton/hour)	Particulate Emission Limits (Pound/hour)
PL-127, PL 125 and PL-126 venting to dust collector DC-6	5.67	13.1 combined
PL-124 venting to dust collector DC-7	0.99	4.07
PL-123, venting to dust collector DC-5	0.99	4.07

The pounds per hour limitation shall be calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.3 Particulate Matter (PM)

The baghouses and the mpf cartridge collector for PM control shall be in operation at all times when the shotblast machines are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.4 Baghouse/Cartridge Inspections

An inspection shall be performed each calendar quarter of all bags/cartridges controlling the blast cleaning operation when venting to the atmosphere. A baghouse/cartridge inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags/cartridges shall be replaced.

D.1.5 Broken or Failed Bag/Cartridge Detection

In the event that bag/cartridge failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C - Malfunction Provisions).
- (b) For single compartment baghouses/cartridges, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C - Malfunction Provisions).